PARALINX TRITON

USER MANUAL

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SAFETY INSTRUCTIONS

When operating this equipment, read and follow all the instructions in this manual.

Keep these instructions in a safe and accessible place for future reference.

Do not use this apparatus near water.

Clean only with a dry cloth.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Use only accessories specified or recommended by Paralinx.

Do not defeat the safety purpose polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of your obsolete outlet. Caution! To reduce the risk of electrical shock, grounding of the center pin of this plug must be maintained.

Protect the power cord from being walked on or pinched--particularly at the plugs, convenience receptacles, and the point where they exit from the apparatus.

Do not block the air ventilation openings. Airflow is required in order to maintain proper operating temperature of the device.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Caution! Shock Hazard. Do not open the unit or this will void your Warranty. Refer to qualified service personnel. All repairs must be performed by a Certified Paralinx Technician. Contact Support@paralinx.net for more information.

Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped or damaged in any way.

OVERVIEW

The Paralinx Triton System is a compact HD Video Transmission system offering realtime uncompressed wireless HD with robust long range, capable of sending full-HD video with a range of up to 450 feet (140m) while maintaining less than 1ms latency.

POWER INPUT WARNING!

The Triton system accepts 6-17 volts DC maximum input current. Subjecting the system to higher voltage will result in damage or destruction!

PACKAGE CONTENTS

Please verify the following items are in the shipping box, prior to installation of the Triton transmitter or Triton receiver:

Please contact sales@paralinx.net should you find any items missing from your package.

HDMI wireless video transmitter

1x 12v Adapter

2x 2dBi OMNI directional antennas for Tx

1x Cold Shoe Mounting Bracket

HDMI wireless video receiver

1x 18" PTap power cable

1x Antenna Mounting Tool

TRANSMITTER
Model No. TR888T

1 **DC IN**
Connect to power adapter

2 **HDMI IN**
Connect to HD video device for signal input

3 **MINI USB**
Software upgrade only

4 **AUDIO IN (3.5mm)**
Connect to active microphone or other audio source

5 **POWER ON/OFF**
Press for 2 seconds to power on the transmitter
Press again for 2 seconds to Power OFF.
*(The transmitter does not charge external battery when connected to a DC power source)

6 **SELECT BUTTON**
Push to confirm selection on LCD screen

7 **CHANNEL BUTTON**
Press to switch between the 8 frequency channels

8 **LCD SCREEN**
Displays the operating status of transmitter (network video status, channel, mode, battery charge)

9 **POWER INDICATOR**
On: power supply is normal
Off: power supply is OFF or abnormal

10 **LOW-BATTERY INDICATOR**
Flashes when the battery charge is low.

11 **SCREW HOLE MOUNTING**
1/4 20" threaded mounting insert

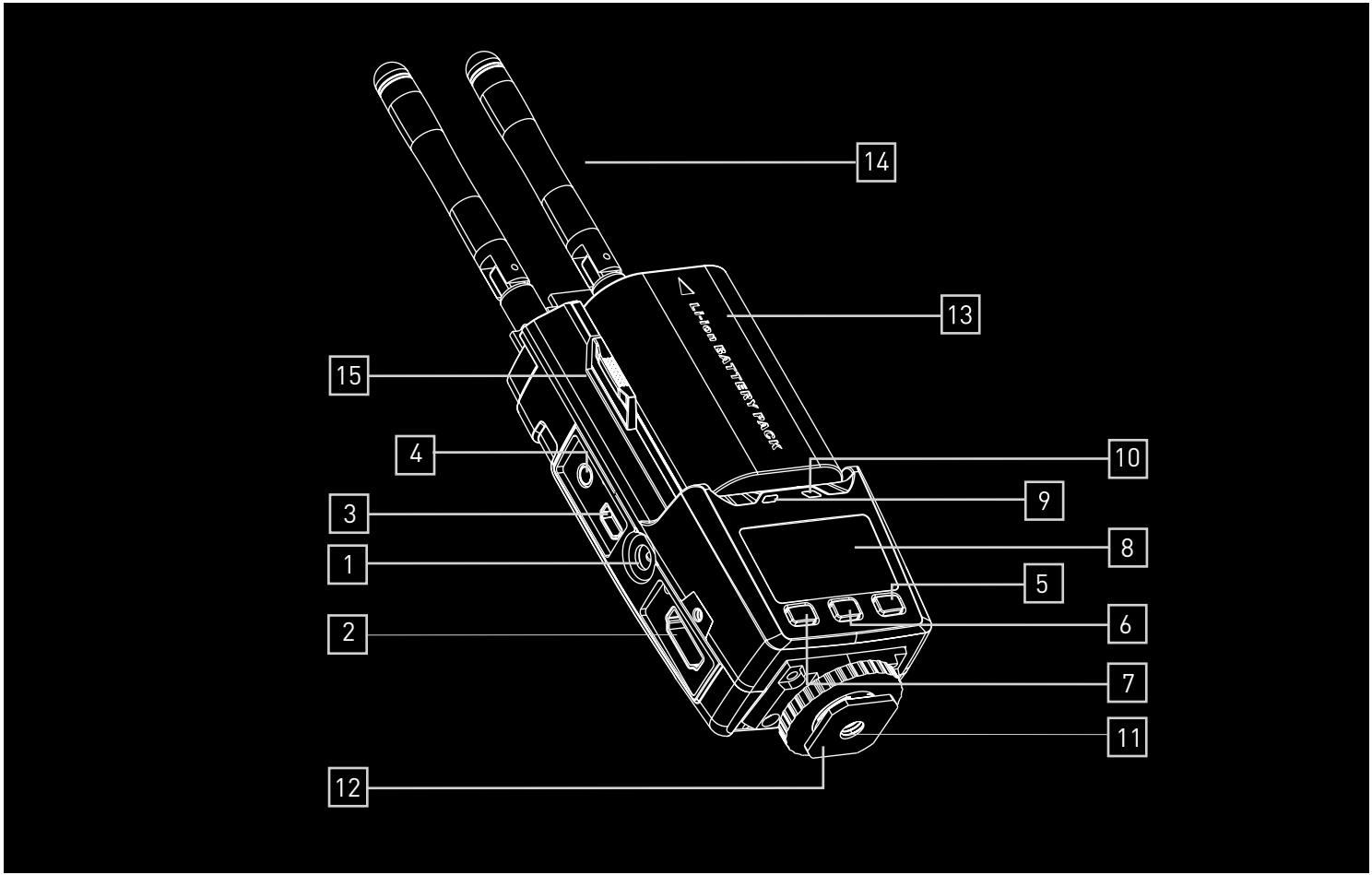
12 **COLD SHOE MOUNT**
For mounting transmitter to a DSLR/DV camera

13 **BATTERY (*NOT INCLUDED)**
LP-E6 style and other compatible types

14 **2dBi ANTENNAS (2)**
RP-SMA type

15 **BATTERY CLIP**
Push to release external battery

*The battery is not included. Available for purchase at paralinx.net/store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LI-ION BATTERY PACK

RECEIVER
Model No. TR888R

1 **DC IN**
Connect to power adapter

2 **HDMI OUT**
Connected to HD display devices for video output.

MINI USB
3 Used for Software upgrade

POWER ON/OFF
4 Press for 2 seconds to power on the receiver.
Press again for 2 seconds to Power OFF.
Note: (The transmitter does not charge external battery when connected to a DC power source)

5 **CHANNEL BUTTON**
Press to switch between the 8 frequency channels

6 **SELECT BUTTON**
Push to confirm selection on LCD screen

7 **LCD SCREEN**
Displays the operating status of receiver (network video status, channel, mode, battery charge)

8 **POWER INDICATOR**
On: power supply is normal
Off: power supply is OFF or abnormal

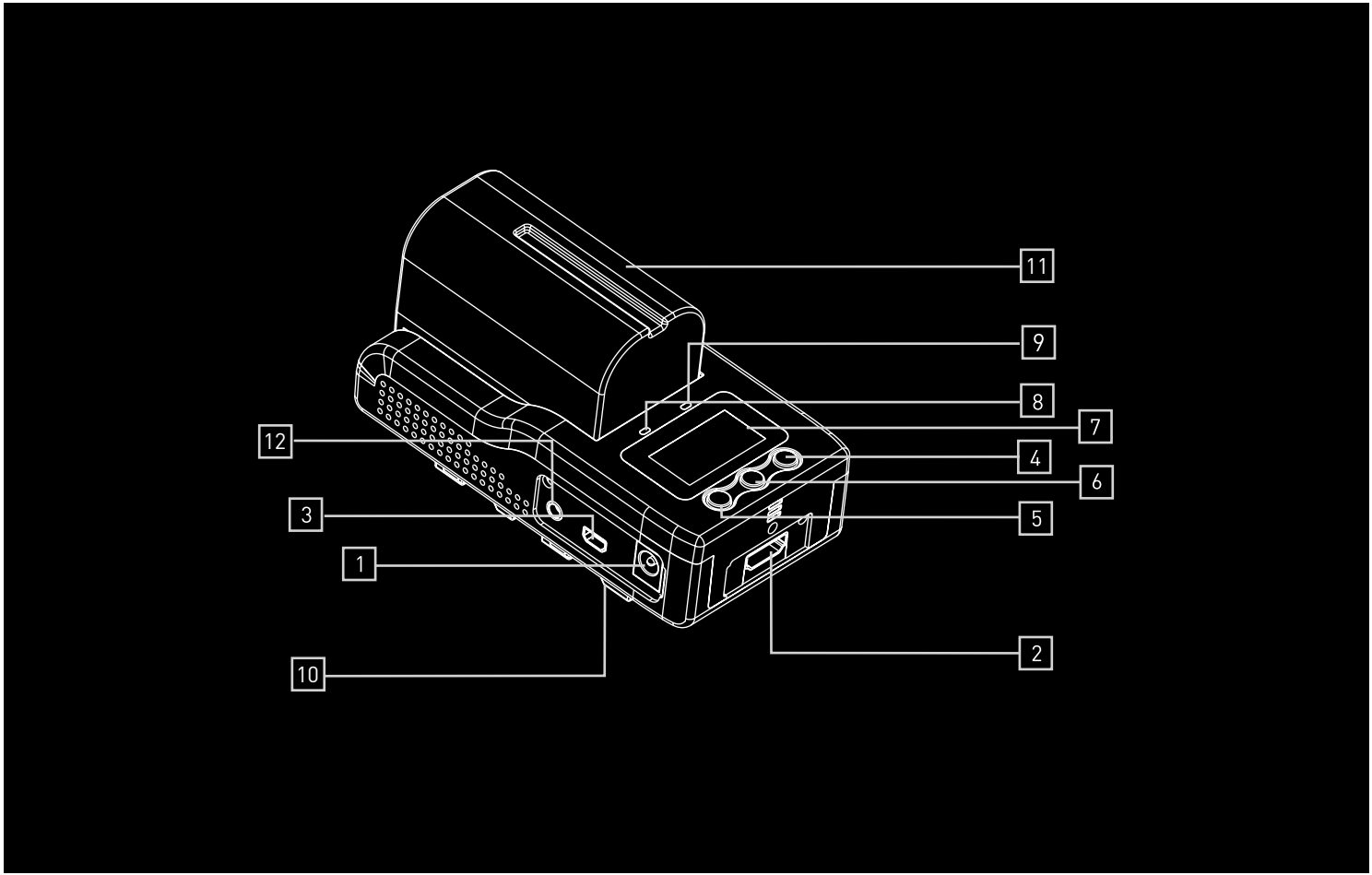
9 **LOW BATTERY INDICATOR**
Flashes when the battery charge is low

10 **SCREW HOLE FOR MOUNTING**
1/4 20" threaded mounting insert

11 **BATTERY (*NOT INCLUDED)**
NP-F style

12 *Tally feature availability TBD*

*The battery is not included. Available for purchase at paralinx.net/store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QUICK-START GUIDE

IMPORTANT NOTE:

For best results, when using multiple systems in close quarters, select channel with at least a one-number gap. For instance: Camera A on channel 1 and Camera B on channel 3.

TRANSMITTER	1	Install antennas and rotate clockwise to tighten. Do not over-tighten.
	2	Connect LP-E6 battery or external 6-17V DC power source.
	3	Connect a video source via HDMI cable
	4	Press ON/OFF button to turn on transmitter
RECEIVER	1	Connect NP-F battery or external 6-17v DC power source
	2	Connect receiver to monitor via HDMI cable, power on receiver and monitor
LINKING	1	Select same channel on transmitter and receivers. Wait up to 10 seconds for 'VIDEO' icon to display on LCD and video will display on monitor

LCD SCREEN

1 **BATTERY CHARGE INDICATOR**

2 **SIGNAL STRENGTH INDICATOR**

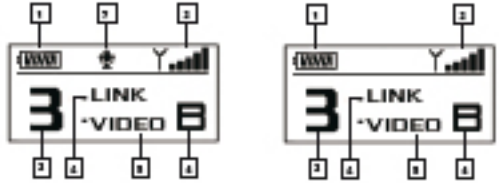
3 **CURRENT CHANNEL SELECTION**

4 **NETWORK STATUS**
'LINK' means unit is linked

5 **VIDEO STATUS**
'VIDEO' means video is transmitting

6 **B MEANS BROADCAST MODE**

7 **MICROPHONE INPUT INDICATOR (WHEN EXTERNAL AUDIO IS BEING USED]**



TIPS

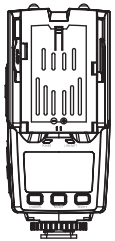
1 *All operations should be saved and implemented by pressing the SELECT button

2 *If the SELECT button is not pressed after changing a setting, the system will revert to its original status after about 10 seconds and the LCD backlight will turn off

3 *When the LCD backlight is off, press any key to illuminate LCD

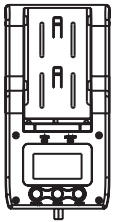
4 *To turn the device on or off, press and hold the ON/OFF button until the device turns on or off

INDICATORS



TRANSMITTER

BATTERY INDICATOR	**ON**	Battery charge is normal
	FLASH	Battery charge is low
POWER INDICATOR	**ON**	Unit is Powered on
	FLASH	Power source is insufficient
	OFF	Unit is OFF



RECEIVER

BATTERY INDICATOR	**ON**	Battery charge is normal
	FLASH	Battery charge is low
POWER INDICATOR	**ON**	Unit is Powered on
	FLASH	Power source is insufficient
	OFF	Unit is OFF

SPECIFICATIONS
Transmitter

Both units should be stored between -40~80˚C (-40~176˚F)

Both units have an operating humidity level of 15~85%

Transmission Frequency	5.10-5.80GHz
Video Communication	MIMO
Modulation Mode	OFDM
Frequency Stability	±20PPM
Bandwidth	40MHz
Standard Protocol	HMDI 1.3, HDCP 1.2
System Latency	≤ 1ms
Antennas	2 External Antennas
Transmission Power	14dBm
Transmission Distance	Up to 450ft / 140m, line of sight
Power Supply options	1. DC (6V~17V) 2. Li-battery (LP-E6, or other compatible types)
Dimensions (W x D x H)	4.65 x 2.13 x 1.69 (in) / 118 x 54 x 43 (mm)
Operating Temperature	14~122˚F / -10~50˚C With Li- Battery: 32~104˚F / 0~40˚C

SPECIFICATIONS
Receiver

Transmission Frequency	5.10-5.80GHz
Video Communication	MIMO
Modulation Mode	OFDM
Frequency Stability	±20PPM
Bandwidth	40MHz
Receiving Sensitivity	≤-70dBm
System Latency	≤ 1ms
Antennas	Built-in Antenna
Standard Protocol	HDMI 1.3, HDCP 1.2
Transmission Distance	Up to 450ft / 140m, line of sight
Power Supply	1. DC (6V~17V) 2. Li-battery (NP-F style)
Dimensions (W x D x H)	4.65 x 2.36 x 1.77 (in) / 118 x 60 x 45 (mm)
Operating Temperature	14~104˚F / -10~40˚C

TROUBLE-SHOOTING

1 **"LINK" Icon is Not Displaying**
- Make sure transmitter and receiver are powered ON
- Make sure both units are on the same channel
- Make sure the transmitter and receiver are within range. Ideal range for linking is within 250 feet (75 meters)
- If problem persists, powercycle both transmitter and receiver

2 **"VIDEO" Icon is Not Displaying on LCD Screen**
- Make sure transmitter and receiver(s) are powered ON
- Make sure all units are on the same channel (1-8)
- Make sure the transmitter and receiver are within range. Maximum range is 450 feet (140 meters)
- Check the HDMI cable from the video source into the transmitter. Unplug and plug it back in again. Try a different HDMI cable if the problem persists.
- If you have changed framerates on your video source, you may need to powercycle the transmitter and receiver(s) for the video signal to be sent.
- If problem persists, check that your video source supports HDCP authentication.

3 **"VIDEO" Icon is ON, but Video Signal Will Not Display on Monitor**
- Make sure your monitor is powered ON and not in standby mode
- Make sure your HDMI cable is plugged into the selected video input
- Make sure the transmitter and receiver are within range. Maximum range is 450 feet (140 meters)
- Check the HDMI cable from receiver to the monitor. Unplug and plug it back in again.
- Try a different HDMI cable if the problem persists.
- Check to see that your monitor supports the video framerate being sent from source

TROUBLE-SHOOTING

IMPORTANT NOTE:

For best results, when using multiple systems in close quarters, select channel with at least a one-number gap. For instance: Camera A on channel 1 and Camera B on channel 3.

4 **Abnormal Color/Tint on Video Signal**
- Unplug the HDMI cables on the transmitter & receiver and plug them back in again.
- Powercycle the transmitter and receiver
- Try different HDMI cables

5 **Digital Noise on the Image**
- Make sure the transmitter and receiver are within range (maximum 450 ft/140m).
- Bring them closer together to see if the problem persists
- If there are several walls or obstacles in between the transmitter and receiver, try to remove them or raise the units to send the signal over them

6 **Video Signal is Fine but There is No Audio**
- Make sure the video source is not muted
- Make sure the volume on your monitor is turned up
- Check to make sure your monitor supports the audio format sent by the video source.
- Change audio format if necessary. If audio format has been changed, powercycle both transmitter and receiver
- Try different HDMI cables on your receiver and transmitter in case it is a problem with the cable(s)
- If the Microphone icon is displayed on the transmitter LCD, make sure an audio signal is being sent through the 3.5mm audio input on the transmitter
- If the Microphone icon is NOT displayed on the transmitter LCD, make sure an audio signal is being sent through the HDMI cable

FOR ADDITIONAL INFORMATION AND SUPPORT VISIT OUR KNOWLEDGE BASE AT: **WWW.PARALINX.NET/SUPPORT**

SUPPORTED FRAMERATES/ RESOLUTIONS

1080/60p	1080/23.98p	1080/59.94i	576i
1080/50p	720/60p	1080/50i	480i
1080/30p	720/59.94	576i	
1080/29.97p	720/50p	480i	
1080/25p	480p	720/59.94i	
1080/24p	1080/60i	720/50i	

AVAILABLE FREQUENCY CHANNELS

1 - 5150mhz

2 - 5190mhz

3 - 5210mhz

4 - 5230mhz

5 - 5735mhz

6 - 5755mhz

7 - 5775mhz

8 - 5795mhz

OPTIONAL ACCESSORIES

GO TO **PARALINX.NET/STORE** TO CHECK OUT ALL TRITON ACCESSORIES AND BUILD YOUR OWN CUSTOMIZED KIT

CONTACT US AT **SALES@PARALINX.NET** SHOULD YOU REQUIRE ANY ASSISTANCE WITH YOUR PURCHASE

CONTACT **SUPPORT@PARALINX.NET** SHOULD YOU REQUIRE ASSISTANCE WITH TROUBLESHOOTING YOUR SYSTEM